



Attorney Docket No. 7067.0003-02

D. Johnson  
#6 4/29-99  
IDS/Statement

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Richard R. REISMAN

Appl. No.: 08/982,157

Filed: December 1, 1997

For: COMPUTER-IMPLEMENTED  
TRANSPORT OF ELECTRONIC  
INFORMATION OBJECTS



Group Art Unit: 2756

Examiner: C. Yaun

RECEIVED

MAR 30 1999

Group 2700

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure and requirements of 37 C.F.R. §§ 1.56, 1.97, and 1.98, and supplemental to the Supplemental Information Disclosure Statement of December 23, 1998, Applicant hereby brings the following information to the attention of the Examiner prior to the issuance of the first Office Action in the present application.

**I. ADDITIONAL INFORMATION RELATING TO THE INTERMIND PATENT**

The Examiner attention is directed to the following U.S. patent, which recently issued and is related to the Intermind patent, WO 97/32251, which was cited by Applicant in the Supplemental Information Disclosure Statement of December 23, 1998:

(1) U.S. Patent No. 5,862,325 (Reed et al.).

The Reed et al. patent (also assigned to Intermind) issued from U.S. Application No. 08/722,314, which is indicated as being a continuation-in-part application of U.S. Application No. 08/609,115. Both the 08/722,314 and the 08/609,115 applications are claimed as priority by the WO 97/32251, which was considered by the Examiner in the present application. Although

the Reed et al. patent is considered to be cumulative to WO 97/32251, the Reed et al. patent has been cited by Applicant in order to complete the record in the present application.

In addition, the following U.S. Patents and Publications/Articles, which were made of record during the prosecution of the Reed et al. patent, have been submitted by the Applicant so that the Examiner may review and consider the same:

<u>U.S. Patent No.</u>	<u>Issue Date</u>	<u>Inventor(s)</u>
4,274,139	6/1981	Hodgkinson et al.
4,432,057	2/1984	Daniell et al.
4,558,413	12/1985	Schmidt et al.
4,604,686	8/1986	Reiter et al.
4,714,992	12/1987	Gladney et al.
4,714,995	12/1987	Materna et al.
4,745,559	5/1988	Willis et al.
4,746,559	5/1998	Nishikawa
4,815,030	3/1989	Cross et al.
4,974,149	11/1990	Valenti
5,008,814	4/1991	Mathur
5,008,853	4/1991	Bly et al.
5,019,963	5/1991	Alderson et al.
5,133,075	7/1992	Risch
5,155,847	10/1992	Kirouac et al.
5,187,787	2/1993	Skeen et al.
5,220,657	6/1993	Bly et al.
5,226,161	7/1993	Khoyi et al.

202-408-4000

5,257,369	10/1993	Skeen et al.
5,287,504	2/1994	Carpenter et al.
5,303,379	4/1994	Khoyi et al.
5,359,730	10/1994	Marron
5,404,488	4/1995	Kerrigan et al.
5,426,747	6/1995	Weinreb et al.
5,440,744	8/1995	Jacobson et al.
5,452,447	9/1995	Nelson et al.
5,473,772	12/1995	Halliwell et al.
5,485,370	1/1996	Moss et al.
5,491,820	2/1996	Belove et al.
5,495,610	2/1996	Shing et al.
5,497,491	3/1996	Mitchell et al.
5,499,343	3/1996	Pettus
5,515,508	5/1996	Pettus et al.
5,519,769	5/1996	Weinberger et al.
5,519,875	5/1996	Yokoyama et al.
5,528,490	6/1996	Hill
5,548,726	8/1996	Pettus
5,555,427	9/1996	Aoe et al.
5,557,793	9/1996	Koerber
5,560,012	9/1996	Ryu et al.
5,564,051	10/1996	Halliwell et al.
5,566,302	10/1996	Khalidi et al.

5,577,244	11/1996	Killebrew et al.
5,581,755	12/1996	Koerber et al.
5,581,761	12/1996	Radia et al.
5,581,764	12/1996	Fitzgerald et al.
5,586,311	12/1996	Davies et al.
5,586,326	12/1996	Ryu et al.
5,596,720	1/1997	Hamada et al.
5,596,746	1/1997	Shen et al.
5,600,834	2/1997	Howard
5,608,874	3/1997	Ogawa et al.
5,615,112	3/1997	Liu Sheng et al.
5,619,710	4/1997	Travis, Jr. et al.
5,623,656	4/1997	Lyons
5,623,661	4/1997	Hon
5,625,818	4/1997	Zarmer et al.
5,628,005	5/1997	Hurvig
5,630,092	5/1997	Carreiro et al.
5,630,116	5/1997	Takaya et al.
5,634,010	5/1997	Ciscon et al.
5,640,564	6/1997	Hamilton et al.
5,644,764	7/1997	Johnson et al.
5,649,192	7/1997	Stucky
5,652,887	7/1997	Dewey et al.
5,668,997	9/1997	Lynch-Freshner et al.

5,673,322	9/1997	Pepe et al.
5,682,532	10/1997	Remington et al.
5,684,984	11/1997	Jones et al.
5,684,991	11/1997	Malcolm
5,689,708	11/1997	Regnier et al.
5,706,434	1/1998	Kremen et al.
5,710,918	1/1998	Lagarde et al.
5,721,911	2/1998	Ha et al.
5,761,677	6/1998	Senator et al.
5,761,678	6/1998	Bendert et al.

Publications/Articles:

C. Bowman, P. Danzig, D. Hardy, U. Manber, M. Schwartz & D. Wessels "Harvest: A Scalable, Customizable Discovery and Access System" Mar. 12, 1995.

D. Hardy & M. Schwartz "Customized Information Extraction as a Basis for Resource Discovery" Mar. 1994.

William G. Camargo "The Harveset Broker," Dec. 1994.

D. Bulterman, G. van Rossum and R. van Liere "A Structure for Transportable, Dynamic Multimedia Documents" US-ENIX, Summer '91 Nashville, TN.

G. Almes and C. Holman "Edmas: An Object-Oriented, Locally Distributed Mail System" IEEE Transactions on Software Engineering, Sep. 1987.

G. Almes, A. Black, C. Bunie and Weibe "Edmas: A Locally Distributed Mail System" IEEE, 1984.

W. Bender, H. Lie, J. Orwant, L. Teodosio, & N. Abramson "Newspace: Mass Media and Personal Computing," USENIX-Summer '91-Nashville TN.

R. Thomas, H. Forsdick, T. Crowley, R. Schaaff, R. Tomlinson & V. Travers "Diamond: A Multimedia Message System Built on a Distributed Architecture" IEEE, Dec. 1994.

S. Ramanathan & P.V. Rangan "Architectures for Personalized Multimedia" IEEE, 1994.

N. Yankelovich, B. Haan, N. Meyrowitz & S. Drucker "Intermedia: The Concept and the Construction of a Seamless Information Environment" IEEE, Jan. 1988.

D. Woelk, W. Kim & W. Luther "An Object-Oriented Approach to Multimedia Database" ACM 1986.

N. Borenstein, C. Everhart, J. Rosenberg, A. Stoller "A Multi-media Message System for Andrew" USENIX Winter Conference Feb., 1988.

S. Jackson & N. Yankelovich "InterMail: A Prototype Hypermedia Mail System" Hypertext 91 Proceedings Dec. 1991.

E. Hoffert & G. Gretsch, "The Digital News System at Ed.ucom: A Convergence of Interactive Computing Newspaper, Television and High Speed Networks" Communications of the ACM Apr. 1991.

D. Crocker, E. Szurkowski & D. Farber "An Internetwork Memo Distribution Capability-MMDF" IEEE, ACM 1979.

Douglas Engelbart "Authorship Provisions in Augment" IEEE, 1984.

J.J. Garcia-Luna-Aceves "Towards Computer-Based Multimedia Information Systems" Computer Message System 85, 1986.

Debra P. Deutsch "Implementing Distribution Lists in Computer-Based Message Systems" Computer-Based Message Services, IFIP, 1984.

T. Purdy, D. Thorslund & N. Witchlow "Meridian SL Messaging" Computer Message Systems-85 IFIP, 1986.

2025 RELEASE UNDER E.O. 14176

Michael Tschichholz "Message Handling System: Requirements to the User Agent"

Computer Message Systems-85, IFIP, 1986.

Lothar Wosnitza "Group Communication in the MHS Context" Computer Message Systems 85 IFIP, 1986.

Jacob Palme "Distribution Agents (mailing lists) in Message Handling Systems" Computer Message Systems 85 IFIP, 1986.

Teresa F. Lunt "A Model for Message System Security" Computer Message Systems 85 IFIP, 1986.

A. Roger Kaye "A User Agent for Multiple Computer-Based Message Services" Computer-Based Message Services, IFIP 1984.

Paul Wilson "Structure for Mailbox System Applications" Computer-Based Message Services, IFIP 1984.

J. Postel, G. Finn, A. Katz & J. Reynolds "The ISI Experimental Multimedia Mail System" Information Sciences Institute, Sep. 1986.

E. Moeller, A. Scheller & G. Schurmann "Distributed Processing of Multimedia Information" IEEE Computer Society Proceedings May 28-Jun. 1, 1990.

Richard L. Phillips "An Interpersonal Multimedia Visualization System" IEEE Computer Graphics & Applications IEEE-1991.

Jacob Palme "You Have 134 Unread Mail! Do You Want to Read Them Now?" Computer-Based Message Services IFIP, 1984.

Michael Caplinger "An Information System Based on Distributed Objects" OOPSLA '87 Proceedings.

M. Papa, G. Raguicini, G. Corrente, M. Ferrise, S. Giurleo and D. Vitale "The Development of an Object-Oriented Multimedia Information System" Lecture Notes in Computer Science, Sep. 1994.

Silvano Maffeis "A Flexible System Design to Support Object-Groups and Object-Oriented Distributed Programming" Lecture Notes in Computer Science, Jul. 1993.

R. Gotze, H. Eirund & R. Claass in "Object-Oriented Dialog Control for Multimedia User Interfaces" Lecture Notes in Computer Science-Human Computer Interaction Sep. 1993.

Chris Maeda "A Metaobject Protocol for Controlling File Cache Management" Lecture Notes in Computer Science, Mar. 1996.

A. Joseph, A. deLepinasse, J. Tauber, D. Gifford & M. Kaashoek "Rover" A Toolkit for Mobile Information Access SIGOPS '95 1995. ACM

Wolfgang Lux "Adaptable Object Migration: Concept and Implementation" Operating Systems Review Apr. 1995.

R. Campbell, N. Islam, R. Johnson, P. Kougiouris & P. Madany "Choices, Frameworks and Refinement" Department of Computer Science, University of Illinois, Dec. 1991.

Klemens Bohm & Thomas C. Rakow "Metadata for Multimedia Documents" SIGMOD Record, Vol. 23, No. 4, Dec. 1994.

Simon Gibbs "Composite Multimedia and Active Objects" OOPSLA '91.

T. Purdin, R. Schlichting & G. Andrews "A File Replication Facility for Berkeley Unix" Software Practice and Experience, Vol. 17, Dec. 1987.

A. Black, N. Hutchinson, E. Jul & H. Levy "Object Structure in the Emerald System" OOPSLA '86 Proceedings.

Daniel T. Chang "Coral: A Concurrent Object-Oriented System for Construcing and Executing Sequential, Parallel and Distributed Applications" OOPS Messenger, Apr. 1991.



202-408-4000

A. Birrell, G. Nelson, S. Owicki & E. Wobber "Network Objects" Proceedings of the 14<sup>th</sup> ACM Symposium on Operating Systems Principles, Dec. 5-8, 1993.

Jacques Ferber "Computational Reflection in Class based Object Oriented Languages" OOPSLA '89 Proceedings.

C. Fung & M. Pong "MOCS: an Object-Oriented Programming Model for Multimedia Object Communication and Synchronization" 1994 IEEE.

T. Hase & M. Matsuda "A New Audio-Visual Control Using Message Object Transmission", 1994 IEEE, Nov. 1994.

F. Horn & J. Stefani "On Programming and Supporting Multimedia Object Synchronization" The Computer Journal, Vol. 36, No. 1, 1993.

T. Little & A. Ghafoor Spatio-Temporal Composition of Distributed Multimedia Objects for Value-Added Networks, IEEE, 1991.

M. Vazirgiannis & C. Mourlas "An Object-Oriented Model for Interactive Multimedia Presentations" The Computer Journal, Vol. 36, No. 1, 1993.

T. Little & A. Ghafoor "Synchronization and Storage Models for Multimedia Objects" 1990 IEEE, Apr. 1990.

Cosmos Nicolaou "Architecture for Real-Time Multimedia Communications Systems", 1990 IEEE, Apr. 1990.

Ralf Steinmetz "Synchronization Properties in Multimedia Systems" 1990 IEEE, Apr. 1990.

T. Little & A. Ghafoor "Network Considerations for Distributed Multimedia Object Composition and Communication" 1990 IEEE Network Magazine, Nov. 1990.

K. Smith and S. Zdonik "Intermedia: A Case Study of the Differences Between Relational and Object-Oriented Database Systems" OOPSLA '87 Proceedings.

N. Yankelovich, B. Haan, N. Meyrowitz & S. Drucker "Intermedia: The Concept and the Construction of a Seamless Information Environment" Jan. 1988 IEEE.

S. Ramanathan & P. Rangan "Architectures for Personalized Multimedia" 1994 IEEE.

Marvin Sirbu and J.D. Tygar, "Netbill: An Internet Commerce System Optimized For Network-Delivered Services", IEEE Personal Communications Magazine, pp. 34-39, Aug. 1995.

Henrik Eriksson, "Expert System As Knowledge Servers", IEEE Expert Magazine, pp. 14-19, Jun. 1996.

Budi Yuwono and Dik Lun Lee, "Wise: A World Wide Web Resource Database System", IEEE Transactions on Knowledge and Data Engineering, Vol. 8, No. Aug. 1996.

H. Penny Nii "Blackboard Systems" The AI Magazine, Summer, 1986.

AppleShare, Apr. 1995.

"Manual Page for Unix NFS Mount Command".

"Manual Page for Unix FSTAB Command".

Phil Lapsley and Brian Kantor "Network News Transfer Protocol", Feb. 1986.

Brian Kantor and Phil Lapsley, Network News Transfer Protocol, "A Proposed Standard for the Stream-Based Transmission of News", Feb. 1986.

M. Crispin "Network Working Group", University of Washington, Dec. 1996.

Terry Gray Comparing Two Approaches to Remote Mailbox Access: IMAP vs. POP, University of Washington.

Terry Gray "Message Access Paradigms and Protocols", University of Washington, Aug. 1995.

## II. ADDITIONAL INFORMATION FOR CONSIDERATION BY THE EXAMINER

In addition, the following documents are brought to the Examiner's attention so that they may be considered as part of the present application:

- (1) UNIX User's Reference Manual (URM), 4.3 Berkley Software Distribution Virtual VAX-11 Version, April 1986 (including the description of a RDIST - a remote file distribution program - 4 pages);
- (2) UNIX System Manager's Manual (SMM), 4.3, Berkeley Software Distribution Virtual VAX-11 Version, April 1986 (including a document entitled "A Fast File System for UNIX," by Marshall McKusick et al., pages SMM 14-1 through SMM 14-15);
- (3) Nachbar, Daniel, "When Network File Systems Aren't Enough: Automatic Software Distribution Revisited," Proceedings of the USENIX Association Summer Conference, pp. 159-171, Atlanta, GA, June 9-13, 1986 (including a description of a method and system for updating computer files called "Track");
- (4) Mockapetris, P., "Domain Names - Implementation and Specification," Network Working Group, Request for Comments - 883, November 1983; and
- (5) Saltzer, J., "On the Naming and Binding of Network Destinations," Network Working Group, Request for Comments - 1498, August 1993.

With respect to documents (1)-(3), these documents were submitted as prior art against the previously cited FITZGERALD et al. patent (U.S. Patent No. 5,581,764), in a pending litigation between Marimba (the defendant) and Novadigm (the plaintiff and owner of the '764 patent) in the Northern District of California (Civil Action No. C-97-20194-JW-PVT-ENE). Documents (4) and (5) relate to DNS (Domain Name Server) and BIND (Berkeley Internet Name Domain), and were downloaded from the Internet at <http://info.internet.isi.edu/in-notes/rfc/files>.


In view of the foregoing, the Examiner is requested to consider and review each of the documents listed on the enclosed PTO-1449 Form and to return an initialed copy of the same to the Applicant in the next official communication.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and applicant(s) determine(s) that the cited document(s) do not constitute "prior art" under United States law, applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents. Applicant also reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there are any fees due in connection with the filing of this statement, please charge such fees to our Deposit Account No. 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

By:   
C. Gregory Gramenopoulos  
Reg. No. 36,532

Date: April 28, 1999

LAW OFFICES  
FINNEGAN, HENDERSON,  
FARABOW, GARRETT,  
& DUNNER, L.L.P.  
1300 I STREET, N. W.  
WASHINGTON, D. C. 20005  
202-408-4000